

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L3	1937	(ito near2 yoshihiro) or (hasuda near2 hirokazu) or (konno near2 tomohiro) or (ishihara near2 kazuhiko) or (yamauchi near2 tetsuya)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2011/09/29 10:45
L4	10	3 and (fixing with agent)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/09/29 10:45
L5	46	"6465178"	US-PGPUB; USPAT	OR	OFF	2011/09/29 11:02
L6	428	(ethylene near2 glycol with meth\$1acrylate near2 acrylamide)	US-PGPUB; USPAT	OR	OFF	2011/09/29 11:15
L7	4	6 and (photoreactive same acrylamide)	US-PGPUB; USPAT	OR	OFF	2011/09/29 11:15
L8	12	6 and (photoreactive)	US-PGPUB; USPAT	OR	OFF	2011/09/29 11:16
L9	335	polyethylene with glycol with mono\$1methacrylate with acrylamide	US-PGPUB; USPAT	OR	OFF	2011/09/29 11:56
L12	146	9 and (irradiat\$4)	US-PGPUB; USPAT	OR	OFF	2011/09/29 11:58
L13	13	12 and ((fix\$4 or coat\$4 or adher\$4 or attach\$4 or functionaliz\$4) with (nucleic near2 acid or lipid or peptide or polypeptide or polysaccharide))	US-PGPUB; USPAT	OR	ON	2011/09/29 12:00
L14	5	"20050074478"	US-PGPUB; USPAT	OR	OFF	2011/09/29 12:29
L15	73	"5981734"	US-PGPUB; USPAT	OR	OFF	2011/09/29 13:31

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L16	55	US-1328830-\$.DID. OR US-4542102-\$.DID. OR US-4582860-\$.DID. OR US-4722906-\$. DID. OR US-4973493-\$.DID. OR US-4979959-\$.DID. OR US-5002582-\$.DID. OR US-5217492-\$.DID. OR US-5414075-\$. DID. OR US-5510084-\$.DID. OR US-5512329-\$.DID. OR US-5512474-\$.DID. OR US-5563056-\$.DID. OR US-5580697-\$. DID. OR US-5610287-\$.DID. OR US-5637460-\$.DID. OR US-5643580-\$.DID. OR US-5654162-\$.DID. OR US-5707818-\$. DID. OR US-5714360-\$.DID. OR US-5718726-\$.DID. OR US-5741551-\$.DID. OR US-5744515-\$.DID. OR US-5783502-\$. DID. OR US-5942555-\$.DID. OR US-6057100-\$.DID. OR US-6254634-\$.DID. OR US-6465178-\$.DID. OR WO-9116425-\$. DID. OR WO-9716544-\$.DID. OR WO-99158716-\$.DID.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2011/09/29 13:32
L17	13	16 and glycol	US-PGPUB; USPAT	OR	OFF	2011/09/29 13:33
L18	6	17 and (acrylamide)	US-PGPUB; USPAT	OR	OFF	2011/09/29 13:33
L19	12	US-1328830-\$.DID. OR US-5981734-\$.DID. OR US-6410044-\$.DID. OR US-20020122917-\$.DID. OR WO-0040593-\$.DID. OR WO-0102452-\$. DID. OR WO-2004050729-\$.DID. OR WO-2004093845-\$.DID.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2011/09/29 13:37
L20	3	"20090042742"	US-PGPUB; USPAT	OR	OFF	2011/09/29 13:43
L21	1	"20110009292"	US-PGPUB; USPAT	OR	OFF	2011/09/29 13:49
L22	6192	(PEG or poly\$1ethylene near2 glycol) near2 (mono\$1methacrylate or methacrylate)	US-PGPUB; USPAT	OR	ON	2011/09/29 13:56
L23	3386	(photoactive or photoreactive) and (methacrylamide or acrylamide)	US-PGPUB; USPAT	OR	ON	2011/09/29 13:57
L24	325	22 and 23	US-PGPUB; USPAT	OR	ON	2011/09/29 13:57
L25	96	24 and ((fix\$4 or coat\$4 or adher\$4 or attach\$4 or functionaliz\$4) with (nucleic near2 acid or lipid or peptide or polypeptide or polysaccharide))	US-PGPUB; USPAT	OR	ON	2011/09/29 13:58
L26	13127	(photo\$1active or photo\$1reactive or photo\$1initiat\$4) and (methacrylamide or acrylamide)	US-PGPUB; USPAT	OR	ON	2011/09/29 14:23
L27	1011	22 and 26	US-PGPUB; USPAT	OR	ON	2011/09/29 14:23
L28	3717	22 and (acrylamide)	US-PGPUB; USPAT	OR	ON	2011/09/29 14:24

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L29	968	28 and (photo\$1activ\$3 or photo\$1reactive or photo\$1initiat\$4)	US-PGPUB; USPAT	OR	ON	2011/09/29 14:26
L30	146	29 and ((fix\$4 or coat\$4 or adher\$4 or attach\$4 or functionaliz\$4) with (nucleic near2 acid or lipid or peptide or polypeptide or polysaccharide))	US-PGPUB; USPAT	OR	ON	2011/09/29 14:27
L31	1375	28 and (irradiat\$4)	US-PGPUB; USPAT	OR	ON	2011/09/29 14:35
L32	158	31 and ((fix\$4 or coat\$4 or adher\$4 or attach\$4 or functionaliz\$4) with (nucleic near2 acid or lipid or peptide or polypeptide or polysaccharide))	US-PGPUB; USPAT	OR	ON	2011/09/29 14:36
S1	1474	436/174.ccls.	US-PGPUB; USPAT	OR	OFF	2009/02/09 11:04
S2	12	S1 and (water with soluble with polymer)	US-PGPUB; USPAT	OR	OFF	2009/02/09 11:10
S3	10	S1 and (fixing near2 (agent or substance))	US-PGPUB; USPAT	OR	OFF	2009/02/09 11:11
S4	1	US-6465178-\$.DID. OR JP-2002534663-\$.DID. OR JP-10152002-\$.DID. OR WO-2001001143-\$.DID. OR JP-2004125781-\$.DID. OR JP-04222004-\$.DID.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/02/09 11:12
S5	7	US-6465178-\$.DID. OR JP-2002534663-\$.DID. OR JP-10152002-\$.DID. OR WO-2001001143-\$.DID. OR JP-2004125781-\$.DID. OR JP-04222004-\$.DID.	US-PGPUB; USPAT; USOCR; JPO; DERWENT	OR	OFF	2009/02/09 11:12
S9	58	"6372813"	US-PGPUB; USPAT	OR	OFF	2009/02/09 11:20
S11	37	("4722906"   "4973493"   "4979959"   "5002582"   "5217492"   "5414075"   "5510084"   "5512329"   "5563056"   "5580697"   "5610287"   "5637460"   "5643580"   "5654162"   "5663318"   "5707818"   "5718726"   "5744515"   "5807522"   "5858653"   "6057100").PN. OR ("6465178").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/02/09 13:54
S13	1	"20060160089"	US-PGPUB; USPAT	OR	OFF	2009/02/09 16:08
S14	1	vinyl and methacryloyloxyethylphospholycholine and azide	US-PGPUB; USPAT	OR	OFF	2009/02/10 07:47
S15	225	vinyl and (methacryloyloxyethylphospholycholine or MPC or PMPC) and azide	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/02/10 07:47

## EAST Search History (Prior Art)

S16	266	(vinyl or polyvinyl near2 chloride or PVC or polyvinyl near2 acetate or PVAC or polyvinyl near2 alcohol or PVA) and (methacryloyloxyethylphosphorylcholine or MPC or PMPC) and azide	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/02/10 07:51
S17	1	(PMAC or methacryloyloxyethylphosphorylcholine) and (azideaniline)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/02/10 08:02
S18	1	(PMAC or methacryloyloxyethylphosphorylcholine or acryloyloxyethylphosphorylcholine or methacrylamide or methacryloyloxybutylphosphorylcholine or methacryloyloxyhexylphosphorylcholine) and (azideaniline)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/02/10 08:08
S19	1	(PMAC or methacryloyloxyethylphosphorylcholine or acryloyloxyethylphosphorylcholine or methacrylamide or methacryloyloxybutylphosphorylcholine or methacryloyloxyhexylphosphorylcholine or styryloxybutylphosphorylcholine) and (azideaniline)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/02/10 08:08
S20	154	poly\$1methacrylamide and azide	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/02/10 08:20
S21	37	S20 and choline	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/02/10 08:20
S22	0	poly\$1methacrylamide and azide\$1aniline	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/02/10 08:22
S23	11	poly\$1methacrylamide and phenyl near2 azide	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/02/10 08:23
S24	114	MPC near2 polymer	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/02/10 10:34
S25	3	S24 and azid\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/02/10 10:34
S26	3	S24 and azide	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/02/10 10:35

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S27	3	S24 and azid\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/02/10 10:35
S28	236	MPC with polymer	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/02/10 10:36
S29	8	S28 and azide	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/02/10 10:36
S30	8088	(MPC or methacryloyloxyethylphosphorylcholine)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/02/10 10:39
S31	722	S30 and azide	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/02/10 10:39
S32	265	S31 and (phenyl or aniline)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/02/10 10:39
S33	133	S32 and vinyl	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/02/10 10:41
S34	13	S32 and methacrylic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/02/10 10:42
S35	123	"30" and azid\$1aniline	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/02/10 12:55
S36	8088	(MPC or methacryloyloxyethylphosphorylcholine)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/02/10 12:55
S37	1	S36 and azid\$1aniline	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/02/10 12:55
S38	128	azid\$1aniline	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/02/10 12:56

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S39	1	S38 and phosphocholine	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/02/10 12:56
S40	6	S38 and choline	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/02/10 13:08
S41	42	("5830539").URPN.	USPAT	OR	OFF	2009/02/11 13:29
S42	7	"424489"	US-PGPUB; USPAT	OR	OFF	2009/07/31 09:52
S43	1	"20090004278"	US-PGPUB; USPAT	OR	OFF	2009/07/31 09:53
S44	8631	(MPC or methacryloyloxyethylphosphorylcholine)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/07/31 09:55
S45	881	S44 and (photoreactive or azide)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/07/31 09:55
S46	12	S45 and (PMAC or methacryloyloxyethylphosphorylcholine or acryloyloxyethylphosphorylcholine or methacrylamide or methacryloyloxybutylphosphorylcholine or methacryloyloxyhexylphosphorylcholine or styryloxybutylphosphorylcholine)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/07/31 09:56
S47	37	"4046577"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/07/31 10:08
S48	5	"7056533"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/07/31 10:10
S49	2	"7417096"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/07/31 10:12
S50	128	"6090901"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/07/31 10:16
S51	49	methacrylamide with photoreactive	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/07/31 10:17

## EAST Search History (Prior Art)

S52	0	S51 and (phenyl\$1azide)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/07/31 10:17
S53	30	S51 and azide	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/07/31 10:18
S54	0	S53 and (MPC)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/07/31 10:19
S55	0	S53 and (MPC or methacryloyloxyethylphosphorylcholine)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/07/31 10:20
S56	5	"2005111618"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/08/10 12:12
S57	0	"2003423771"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/08/10 12:13
S58	2	"2005181154"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/08/10 12:13
S59	5	"2004088319"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/08/10 12:14
S60	2	"2005221297"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/08/10 12:15
S61	0	"2001001143"	US-PGPUB; USPAT	OR	OFF	2009/08/12 14:58
S62	4	"2001001143"	US-PGPUB; USPAT; DERWENT	OR	OFF	2009/08/12 14:58
S63	62	"6372813"	US-PGPUB; USPAT; DERWENT	OR	OFF	2009/08/12 14:59
S64	105	"20010014448"	US-PGPUB; USPAT	OR	OFF	2009/08/12 15:13
S65	8670	(MPC or methacryloyloxyethylphosphorylcholine)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/08/12 16:06

## EAST Search History (Prior Art)

S66	197	(MPC or methacryloyloxyethylphosphorylcholine) with copolymer	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/08/12 16:06
S67	0	S66 and (vinyl with backbone)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/08/12 16:06
S68	98	S66 and (vinyl)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/08/12 16:07
S69	7	S68 and (photoreactive or azide)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/08/12 16:07
S70	12	S66 and (photoreactive or azide)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/08/12 16:08
S71	5	S70 not S69	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/08/12 16:08
S72	2459	MPC near2 polymer or phosphorylcholine	US-PGPUB; USPAT	OR	OFF	2010/05/25 08:29
S73	38	S72 and photoreactive	US-PGPUB; USPAT	OR	OFF	2010/05/25 08:30
S74	261	S72 and azide	US-PGPUB; USPAT	OR	OFF	2010/05/25 08:32
S75	30	S74 and (fix\$4 with substrate)	US-PGPUB; USPAT	OR	OFF	2010/05/25 08:32
S76	119	MPC near2 polymer	US-PGPUB; USPAT	OR	OFF	2010/05/25 08:34
S77	13	S76 and (fix\$4 with substrate)	US-PGPUB; USPAT	OR	OFF	2010/05/25 08:34
S78	4	MPC near2 polymer and azide	US-PGPUB; USPAT	OR	OFF	2010/05/25 08:36
S79	215	MPC near2 polymer or lipidure	US-PGPUB; USPAT	OR	OFF	2010/05/25 08:58
S80	23	S79 and (fix\$4 with substrate)	US-PGPUB; USPAT	OR	OFF	2010/05/25 08:58
S81	465	polymer same (lipidure or MPC)	US-PGPUB; USPAT	OR	OFF	2010/05/25 09:02
S82	2	S81 same2 azide	US-PGPUB; USPAT	OR	OFF	2010/05/25 09:03
S83	104	(lipidure or MPC) with coating	US-PGPUB; USPAT	OR	OFF	2010/05/25 09:04

## EAST Search History (Prior Art)

S84	15	(lipidure or MPC) and (polyvinyl same backbone)	US-PGPUB; USPAT	OR	OFF	2010/05/25 09:07
S85	319	(ito near2 yoshihiro) or (hasuda near2 hirokazu) or (konno near2 tomohiro) or (ishihara near2 kazuhiko) or (yamauchi near2 tetsuya)	US-PGPUB; USPAT	OR	OFF	2010/05/25 09:18
S86	31	S85 and (MPC or choline)	US-PGPUB; USPAT	OR	OFF	2010/05/25 09:18
S87	5	S86 and azide	US-PGPUB; USPAT	OR	OFF	2010/05/25 09:19
S88	30	(US-20030078314-\$ or US-20060160089-\$ or US-20030073086-\$ or US-20040016035-\$ or US-20090004278-\$ or US-20010014448-\$ or US-20070102362-\$ or US-20040161466-\$).did. or (US-6465178-\$ or US-6372813-\$ or US-6686161-\$ or US-5610287-\$ or US-4973493-\$ or US-5217492-\$ or US-5637460-\$ or US-5744515-\$ or US-5858653-\$ or US-6762019-\$ or US-7309593-\$ or US-5830539-\$ or US-5196478-\$ or US-6414214-\$ or US-7417096-\$ or US-5563056-\$ or US-6706260-\$).did. or (JP-2005181154-\$ or JP-2005221297-\$).did. or (JP-2004125781-\$ or WO-0040593-\$ or WO-2005111618-\$).did.	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2011/01/06 10:28
S89	2	S88 and (poly\$1ethylene near2 glycol with meth\$1acrylat\$4 with acrylamide)	US-PGPUB; USPAT	OR	OFF	2011/01/06 10:29
S90	1	poly\$1ethylene near2 glycol with meth\$1acrylat\$4 with azidephenylacrylamide	US-PGPUB; USPAT	OR	OFF	2011/01/06 10:35
S91	7	poly\$1ethylene near2 glycol with meth\$1acrylat\$4 with photoreactive	US-PGPUB; USPAT	OR	OFF	2011/01/06 10:37
S92	1	S91 and (azide)	US-PGPUB; USPAT	OR	OFF	2011/01/06 10:37
S93	30	(US-20030078314-\$ or US-20060160089-\$ or US-20030073086-\$ or US-20040016035-\$ or US-20090004278-\$ or US-20010014448-\$ or US-20070102362-\$ or US-20040161466-\$).did. or (US-6465178-\$ or US-6372813-\$ or US-6686161-\$ or US-5610287-\$ or US-4973493-\$ or US-5217492-\$ or US-5637460-\$ or US-5744515-\$ or US-5858653-\$ or US-6762019-\$ or US-7309593-\$ or US-5830539-\$ or US-5196478-\$ or US-6414214-\$ or US-7417096-\$ or US-5563056-\$ or US-6706260-\$).did. or (JP-2005181154-\$ or JP-2005221297-\$).did. or (JP-2004125781-\$ or WO-0040593-\$ or WO-2005111618-\$).did.	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2011/02/01 10:29

### EAST Search History (Prior Art)

S94	1	S93 and (poly\$1ethylene near2 glycol with meth\$1acrylat\$4 with photoreactive)	US-PGPUB; USPAT	OR	OFF	2011/02/01 10:29
S95	2841	poly\$1ethylene near2 glycol with meth\$1acrylat\$4 with acrylamide	US-PGPUB; USPAT	OR	ON	2011/02/01 10:35
S96	11	(poly\$1ethylene near2 glycol with meth\$1acrylat\$4 with acrylamide) same photo\$1reactiv\$4	US-PGPUB; USPAT	OR	ON	2011/02/01 10:35

### EAST Search History (I nterference)

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